There is a well-known bijection between the set of parking functions of length $n$ (denoted $PF_n$) and the maximal chains of the lattice formed by the noncrossing partitions on $n+1$-elements (denoted $NC_{n+1}$). Using this bijection we explore a particular decomposition of $PF_n$ and the posets formed by the corresponding maximal chains in $NC_{n+1}$. We show these decomposed posets preserve several interesting properties of $NC_{n+1}$ such as self-duality. We also enumerate these decompositions and posets into formulas using the Catalan numbers. In addition, we provide interpretations of this particular decomposition in other objects such as labeled Dyck paths, labeled rooted forests, and nonnesting partitions. (Received September 20, 2015)