```
append_assoc  THM

⊢  ∀as,bs,cs:T List. ((as @ bs) @ cs) = (as @ (bs @ cs))  by UnivCD
|
1. T : Type
2. as : T List
3. bs : T List
4. cs : T List
⊢  ((as @ bs) @ cs) = (as @ bs @ cs)  by ListInd 2 THEN AbReduce 0
|
|\
| ⊢  (bs @ cs) = (bs @ cs)  by Auto
|
.\
. 5. u : T
. 6. v : T List
. 7. ((v @ bs) @ cs) = (v @ bs @ cs)
. ⊢  u.((v @ bs) @ cs) = u.(v @ bs @ cs)  by RewriteWith [7] [] 0
END
```