```
reverse_append  THM

⊢  ∀as,bs:T List. rev(as @ bs) = (rev(bs) @ rev(as))
| by (CDToVarThen ‘as’ ListInd) THEN (Reduce 0)
|
|\
| 1. T : Type
| 2. T List
| ⊢  ∀bs:T List. rev(bs) = (rev(bs) @ nil)
|   by RW0 Thm* ∀as:T List. (as @ nil) = as    {append_back_nil} 0
|
.\
. 1. T : Type
. 2. T List
. 3. u : T
. 4. v : T List
. 5. ∀bs:T List. rev(v @ bs) = (rev(bs) @ rev(v))
. ⊢  ∀bs:T List. (rev(v @ bs) @ [u]) = (rev(bs) @ rev(v) @ [u])
. | by (Analyze 0) THEN (RW0 "5" 0)
. |
. 6. bs : T List
. ⊢  ((rev(bs) @ rev(v)) @ [u]) = (rev(bs) @ rev(v) @ [u])
.   by RW0
.      Thm* ∀as,bs,cs:T List. ((as @ bs) @ cs) = (as @ (bs @ cs))
.      {append_assoc}
.      0
END
```